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STIC Search Report

EIC 2100

STIC Database Tracking Number: 127005

TO: Luke Wassum
Location: 4D41
Art Unit : 2177
Wednesday, July 14, 2004

Case Serial Number: 10*098705

From: David Holloway
Location: EIC 2100
PK2-4B30
Phone: 308-7794

david.holloway@uspto.gov

Search Notes

Dear Examiner Wassum,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

SEARCH REQUEST FORM

Scientific and Technical Information Center

(36)

Requester's Full Name: Luke S Wassum Examiner #: 77895 Date: 12 July 2004
 Art Unit: 277 Phone Number 305-5706 Serial Number: 10 08705
 Mail Box and Bldg/Room Location: PK2-4041 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Polymorphic Database
 Inventors (please provide full names): William Edward Weinmann

Earliest Priority Filing Date: 3/14/01

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

A database

whose schema is arranged as a data table and a category table,
 whereby the data table ^{represents} ~~is~~ a single ^{conventional} field, comprising the
 data value itself, and a category id representing the ^{category (or type)} of
 data represented, and

whereby the category table includes a category id corresponding to the
 category id in the data table, plus data describing the category (or type)
 of data represented, such as the category name, and the data type
 (such as string, integer, BLOB, etc)

Assignee is Polymorphic Data Corporation.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Daniel Holloway</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>308 7794</u>	AA Sequence (#) _____	Dialog <u>\$ 942 "1"</u>
Searcher Location: <u>CPh2 4730</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>7-14-04</u>	Bibliographic <input checked="" type="checkbox"/>	Dr.Link _____
Date Completed: <u>7-14-04</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>60</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
Online Time: <u>172</u>	Other _____	Other (specify) _____

Set	Items	Description
S1	964569	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK?) OR OODB? - OR DB? ? OR DBM? OR RDB?
S2	79078	DATA()TABLE? OR (SINGLE OR UNIQUE OR IDENTIFIED OR SPECIFI- ?) (N) (FIELD? OR VALUE? OR EXPRESSION?)
S3	12912763	SCHEMA OR DESIGN? OR PLAN OR FORMAT? OR LAYOUT? OR STRUCTU- RE? OR SCHEMAS OR PLANS OR MAPPING
S4	15086	(TWO OR SECOND OR ADDITIONAL OR MULTIPLE OR 2ND OR TWIN OR PAIR) (2N) (TABLE?)
S5	1274300	LINK? OR POINTER? OR TAG? ? OR IDENTIFIER? OR ID? ?
S6	789799	DATA()CUBE? OR DATACUBE? OR (3D OR 3 OR THIRD OR THREE) () (- DIMENSION? OR D)
S7	7528	S1(3N) (MODIF? OR CHANGE? OR CHANGING OR ALTER OR REVIS? OR EDIT OR EDITING)
S8	31873	CATEGORY?()TABLE? OR (DATA OR INFORMATION) () (ID OR IDENTIFI- ER? OR IDS OR TYPE?) OR METADATA? OR META()DATA?
S9	35	S1 AND S2 AND S8
S10	28	S9 AND (S3 OR S4 OR S6)
S11	6	S9 AND S5
S12	8	S1 AND S2 AND S3 AND S4
S13	35	S10 OR S11 OR S12
S14	28	RD (unique items)
S15	23	S14 NOT PY>2001
S16	22	S15 NOT PD>20010314
File	8:	Ei Compendex(R) 1970-2004/Jul W1 (c) 2004 Elsevier Eng. Info. Inc.
File	35:	Dissertation Abs Online 1861-2004/May (c) 2004 ProQuest Info&Learning
File	202:	Info. Sci. & Tech. Abs. 1966-2004/Jul 12 (c) 2004 EBSCO Publishing
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File	94:	JICST-EPlus 1985-2004/Jun W3 (c) 2004 Japan Science and Tech Corp(JST)
File	111:	TGG Natl.Newspaper Index(SM) 1979-2004/Jul 13 (c) 2004 The Gale Group
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File	99:	Wilson Appl. Sci & Tech Abs 1983-2004/Jun (c) 2004 The HW Wilson Co.

16/5/3 (Item 3 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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04463268 E.I. No: EIP96083261301

Title: Design and implementation of a database for human genome research

Author: Sargent, Rob; Fuhrman, Dave; Critchlow, Terence; Di Sera, Tony; Mecklenburg, Robert; Lindstrom, Gary; Cartwright, Peter

Corporate Source: Univ of Utah, Salt Lake City, UT, USA

Conference Title: Proceedings of the 1996 8th International Conference on Scientific and Statistical Database Management

Conference Location: Stockholm, Swed **Conference Date:** 19960618-19960620

Sponsor: IEEE

E.I. Conference No.: 45072

Source: Scientific and Statistical Database Management - Proceedings of the International Working Conference 1996. IEEE, Los Alamitos, CA, USA. p 220-225

Publication Year: 1996

CODEN: 85QLA8

Language: English

Document Type: CA; (Conference Article) **Treatment:** A; (Applications)

Journal Announcement: 9610W1

Abstract: The Human Genome Project poses severe challenges in **database design** and implementation. These include comprehensive coverage of diverse data domains and user constituencies; robustness in the presence of incomplete, inconsistent and multi-version data; accessibility through many levels of abstraction, and scalability in content and organizational complexity. This paper presents a new data model developed to meet these challenges by the Utah Center for Human Genome Research. The central characteristics are (i) a high level data model comprising five broadly applicable workflow notions; (ii) representation of those notions as objects in an extended relational model; (iii) expression of working **database schemas** as **meta data** in administration tables; (iv) population of the **database** through tables dependent on the **meta data tables**; and (v) implementation via a conventional relational **database** management system. We explore two advantages of this approach: the resulting representational flexibility, and the reflective use of **meta data** to accomplish **schema** evolution by ordinary updates. Implementation and performance pragmatics of this work are sketched, as well as implications for future **database** development. (Author abstract) 9 Refs.

Descriptors: Relational **database** systems; Data **structures**; Genetic engineering; Natural sciences computing; Systems analysis; Human engineering

Identifiers: Extended relational data model; Human genome research; **Schema** evolution; **Meta data**; Genome informatics; **Database schemas**; Data evolvability

Classification Codes:

461.8.1 (Genetic Engineering)

723.3 (Database Systems); 723.2 (Data Processing); 461.8

(Biotechnology); 723.5 (Computer Applications); 461.4 (Human Engineering)

723 (Computer Software); 461 (Biotechnology)

72 (COMPUTERS & DATA PROCESSING); 46 (BIOENGINEERING)

16/5/5 (Item 1 from file: 35)
DIALOG(R) File 35:Dissertation Abs Online
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01409394 ORDER NO: AADAA-I9512997

ENHANCING FUNCTIONALITY OF RELATIONAL DATABASE SYSTEMS

Author: JIANG, YIN-HE

Degree: PH.D.

Year: 1994

Corporate Source/Institution: PURDUE UNIVERSITY (0183)

Major Professor: BHARAT BHARGAVA

Source: VOLUME 55/12-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 5428. 151 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

This thesis explores ways to enhance functionality and performance of relational **database** systems. Specifically, it presents the **design** and implementation for supporting abstract **data types** (or classes), composite objects and indexing methods for nested objects in a relational **database** system, and compares the performance of such a system with relational and object-oriented **database** systems.

To explore functionality enhancements to a relational **DBMS**, we supported abstract **data types**, composite objects, persistent **pointers**, and replication of composite objects, on top of the RAID distributed relational **database** system prototype. The resulting system called O-Raid was developed so that it retains all the features of relational **data base** systems, while being augmented with features of a general purpose object-oriented programming language. This approach allows co-existence of relations and objects and reuse of the relational **database** system software.

To study the performance, we ran the OO1 engineering benchmark on the extended relational **DBMS**, O-Raid, and its underlying relational **DBMS**, Raid. We identified the benefits and overhead in the extended relational **DBMS**. Our studies showed that the extended relational **database** system, O-Raid, incurred only a small amount of overhead (under 15%) for insert and select queries. The traversal of **links** in memory for the extended relational **DBMS** O-Raid took less time than the traversal of data in Raid which was through expensive relational join operations.

We re-evaluated three index schemes (nested index, path index, and multi-index) applicable to queries on nested attributes. Among these, we found that a multi-index scheme was best supported in the object-oriented or extended relational **DBMS** environment. Multi-index schemes not only provided a better balance between retrieval and update costs than did the nested index or path indices, but they also scaled well for update when the number of indices increased. We proposed a multi-index **design** that reused the single-table index **structures** already present in a **DBMS**. Our performance study extended the previous models by permitting attributes to be multi-valued as well as **single - valued**. We also suggested that a combination of nested index and multi-index schemes offered a feasible solution to the support of queries on nested objects.

16/5/6 (Item 1 from file: 202)
DIALOG(R) File 202:Info. Sci. & Tech. Abs.
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2600241

Data base management system for real-time applications.
Author(s): Fatehi, F; Givens, C.; Hong, L.T.; Liu, C.C.; et al.
Patent Number(s): US 4961139
Publication Date: Oct 2, 1990
Language: English
Document Type: Patent
Record Type: Abstract
Journal Announcement: 2600

A real-time **database** provides the predictable, high speed data access required for on-line applications, while providing flexible searching capabilities. The data retrieval routines include the option to "read-through-lock" to access data in locked **data tables**, the capability to directly access to data using tuple identifiers, and the capability to directly access unformatted data from input areas which contain blocks of unformatted data. The data updating routines include an option to omit index updating when updating data and an option to update data in a locked **data table**. **Multiple** indexes can be defined for a **data table**. Thus, high speed searches can be performed based on a variety of data fields. The data storage and retrieval mechanisms are independent and there are hash index tables that connect the multiple index keys to the **data tables**. The **data table structure** includes a column defined for storing tuple identifier strings. These tuple identifiers can be used as pointers for chaining to related data stored in other **data tables**. The **database** has relatively small programmatic memory. There is a common **structure** for user **data tables**, index tables and system tables. The **database** includes a minimum number of routines with certain routines providing multiple functionality.

Descriptors: Access; **Database** management systems; Information retrieval;
Online systems
Classification Codes and Description: 6.02 (Bibliographic Search Services,
Databases)
Main Heading: Information Systems and Applications

16/5/8 (Item 2 from file: 2)
DIALOG(R) File 2:INSPEC
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6616446 INSPEC Abstract Number: A2000-14-9575-020, C2000-07-7350-020

Title: **The NASA Astrophysics Data System: architecture**

Author(s): Accomazzi, A.; Eichhorn, G.; Kurtz, M.J.; Grant, C.S.; Murray, S.S.

Author Affiliation: Harvard-Smithsonian Center for Astrophys., Cambridge, MA, USA

Journal: Astronomy & Astrophysics Supplement Series vol.143, no.1
p.85-109

Publisher: Editions de Physique,

Publication Date: April 2000 Country of Publication: France

CODEN: AAESB9 ISSN: 0365-0138

SICI: 0365-0138(200004)143:1L:85:NADS;1-3

Material Identity Number: A351-2000-011

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: The powerful discovery capabilities available in the ADS bibliographic services are possible thanks to the **design** of a flexible search and retrieval system based on a relational **database** model. Bibliographic records are stored as a corpus of **structured** documents containing fielded data and **metadata**, while discipline-specific knowledge is segregated in a set of files independent of the bibliographic data itself. This ancillary information is used by the **database** management software to compile **field - specific** index files used by the ADS search engine to resolve user queries into lists of relevant documents. The creation and management of **links** to both internal and external resources associated with each bibliography in the **database** is made possible by representing them as a set of document properties and their attributes. The resolution of **links** available from different locations has been generalized to allow its control through a site- and user-specific preference **database**. To improve global access to the ADS data holdings, a number of mirror sites have been created by cloning the **database** contents and software on a variety of hardware and software platforms. The procedures used to create and manage the **database** and its mirrors have been written as a set of scripts that can be run in either an interactive or unsupervised fashion. The modular approach we followed in software development has allowed a high degree of freedom in prototyping and customization, making our system rich of features and yet simple enough to be easily modified on a day-to-day basis. We conclude by discussing the impact that new datasets, technologies and collaborations is expected to have on the ADS and its possible role in an integrated environment of networked resources in astronomy. The ADS can be accessed at: <http://adswwww.harvard.edu>. (57 Refs)

Subfile: A C

Descriptors: astronomy; astronomy computing; bibliographic systems; data analysis; graphical user interfaces; information retrieval; information services; interactive systems; public information systems; relational **databases**

Identifiers: NASA Astrophysics Data System; architecture; bibliographic services; retrieval system; relational **database** model; fielded data; **metadata**; **database** management software; queries; data representation; **links**; mirror sites; interactive fashion; unsupervised fashion; software development; indexing engine; morphological translation rules; synonym expansion; **database** mirroring; mirroring software

Class Codes: A9575P (Mathematical and computer techniques in astronomy); C7350 (Astronomy and astrophysics computing); C6160D (Relational databases); C6180G (Graphical user interfaces); C7210N (Information networks); C7250C (Bibliographic retrieval systems); C7250R (Information retrieval techniques)

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16/5/12 (Item 6 from file: 2)
DIALOG(R) File 2:INSPEC
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04303931 INSPEC Abstract Number: C9301-6160J-034

Title: Using Prolog to provide access to metadata in an object-oriented database

Author(s): Embury, S.M.; Jiao, Z.; Gray, P.M.D.

Author Affiliation: Dept. of Comput. Sci., Aberdeen Univ., UK

Conference Title: Practical Applications of Prolog. International Conference p.1/1-23 vol.2

Publisher: Practical Applications of Prolog, Dorking, UK

Publication Date: 1992 **Country of Publication:** UK 2 vol. 724 pp.

Conference Date: 1-3 April 1992 **Conference Location:** London, UK

Language: English **Document Type:** Conference Paper (PA)

Treatment: Practical (P)

Abstract: P/FDM is an object-oriented **database** implemented in Prolog that is intended to provide a platform for the development of data intensive applications (e.g. scientific **databases**). It is being used to store information about protein **structures**. A Prolog application has been developed that uses this large **database** to assist biochemists in homology modelling of proteins. Because of the large amounts of data involved, it is essential that **database** access be efficient. This is particularly true of **metadata**, which must be accessed several times to retrieve even a **single value** from the **database**. Unfortunately, this causes a conflict with user applications, which also need to access **metadata**. Now uniformity of access replaces efficiency as the main consideration. The authors examine this conflict of requirements and a solution is proposed. Finally, the suitability of Prolog for the implementation of such a solution is discussed. (15 Refs)

Subfile: C

Descriptors: biology computing; chemistry computing; deductive **databases**; object-oriented **databases**; PROLOG

Identifiers: P/FDM; object-oriented **database**; Prolog; data intensive applications; scientific **databases**; protein **structures**; Prolog application; large **database**; biochemists; homology modelling; proteins; **database** access; **metadata**; user applications

Class Codes: C6160J (Object-oriented databases); C6160K (Deductive databases); C6110L (Logic programming); C6140D (High level languages); C7330 (Biology and medicine); C7320 (Physics and Chemistry)

16/5/15 (Item 9 from file: 2)

DIALOG(R) File 2:INSPEC

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03647690 INSPEC Abstract Number: C90041221

Title: Logic programming with polymorphically order-sorted types

Author(s): Smolka, G.

Author Affiliation: WT LILOG, IBM Deutschland, Stuttgart, West Germany

Conference Title: Algebraic and Logic Programming. International Workshop
Proceedings p.53-70

Editor(s): Grabowski, J.; Lescanne, P.; Wechler, W.

Publisher: Springer-Verlag, Berlin, West Germany

Publication Date: 1988 Country of Publication: West Germany 278 pp.

ISBN: 3 540 50667 5

Conference Date: 14-18 Nov. 1988 Conference Location: Gaussig, East
Germany

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

Abstract: The foundations for relational logic programming with polymorphically order-sorted **data types** is presented. This type discipline combines the notion of parametric polymorphism which has been developed for higher-order functional programming with the notion of order-sorted typing which has been developed for equational first-order specification and programming. Both notions are important for practical reasons. With parametric polymorphism one avoids the need for redefining lists and other parametric **data types** for every type they are used with. Subsorts not only provide for more natural type specifications but also yield more computational power: variables can be constrained to sorts rather than to **single values** and typed unification computes directly with sort constraints, thus reducing the need for expensive backtracking.

(30 Refs)

Subfile: C

Descriptors: computational linguistics; data **structures** ; formal logic; logic programming; relational **databases** ; rewriting systems; sorting

Identifiers: relational logic programming; polymorphically order-sorted **data types** ; type discipline; parametric polymorphism; higher-order functional programming; order-sorted typing; equational first-order specification; parametric **data types** ; natural type specifications; computational power; typed unification; sort constraints; backtracking

Class Codes: C6110 (Systems analysis and programming); C4210 (Formal logic); C6120 (File organisation); C4290 (Other computer theory); C6140D (High level languages); C6170 (Expert systems)

Set	Items	Description
S1	204389	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK?) OR OODB? - OR DB? ? OR DBM? OR RDB?
S2	42103	DATA()TABLE? OR (SINGLE OR UNIQUE OR IDENTIFIED OR SPECIFI- ?) (N) (FIELD? OR VALUE? OR EXPRESSION?)
S3	1534535	SCHEMA OR DESIGN? OR PLAN OR FORMAT? OR LAYOUT? OR STRUCTU- RE? OR SCHEMAS OR PLANS OR MAPPING
S4	33232	(TWO OR SECOND OR ADDITIONAL OR MULTIPLE OR 2ND OR TWIN OR PAIR) (2N) (TABLE?)
S5	599786	LINK? OR POINTER? OR TAG? ? OR IDENTIFIER? OR ID? ?
S6	147324	DATA()CUBE? OR DATACUBE? OR (3D OR 3 OR THIRD OR THREE) () (- DIMENSION? OR D)
S7	6835	S1(3N) (MODIF? OR CHANGE? OR CHANGING OR ALTER OR REVIS? OR EDIT OR EDITING)
S8	43	S1(10N)S2(10N)S3(10N)S4
S9	21	S8 AND IC=(G06F-007? OR G06F-017?)
S10	3	S8(S)S6
S11	4	S8(S)S7
S12	13	S8(S)S5
S13	12	(S10 OR S11 OR S12) AND IC=G06F?
S14	23	S9 OR S13
S15	23	IDPAT (sorted in duplicate/non-duplicate order)
S16	23	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2004/Jul W01
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File 349:PCT FULLTEXT 1979-2002/UB=20040701,UT=20040624
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16/3,K/4 (Item 4 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00650776

Indexing/compression scheme for supporting graphics and data selection
Indexierungs-/Komprimierungsschema zur Unterstützung von Graphiken und
Datenselektion

Arrangement d'indexation/compression pour supporter des graphiques et la
selection de donnees

PATENT ASSIGNEE:

Direct Insite Corporation, (4539330), 724 Market Street, Wilmington,
Deleware, (US), (Proprietor designated states: all)

INVENTOR:

Pellicano, Russel A., 359 Pennsylvania Avenue, North Bayshore, New York,
(US)

LEGAL REPRESENTATIVE:

Korber, Wolfhart, Dr.rer.nat. et al (44471), Patentanwälte Mitscherlich &
Partner, Postfach 33 06 09, 80066 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 627697 A1 941207 (Basic)
EP 627697 B1 031203

APPLICATION (CC, No, Date): EP 93109048 930604;

PRIORITY (CC, No, Date): EP 93109048 930604

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT WORD COUNT: 15269

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	842
CLAIMS B	(English)	200349	928
CLAIMS B	(German)	200349	836
CLAIMS B	(French)	200349	1111
SPEC A	(English)	EPABF2	13197
SPEC B	(English)	200349	13425
Total word count - document A			14041
Total word count - document B			16300
Total word count - documents A + B			30341

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION In U.S. Patent No. 4,961,139, Hong et al. discloses a
database management **system** for real-time applications. A real-time
database provides the predictable, high speed data access...

...access data in locked data tables, the capability to directly access the
data using tuple **identifiers**, and the capability to directly access
unformatted data from input areas which contain blocks of...

...updating routines include an option to omit index updating when updating
data and an option **to** update data in a locked data table. Multiple
indexes can be defined for a data **table**. Thus, high speed searches can
be performed based on a variety of data fields. **The** data storage and
retrieval mechanisms are independent and there are hash index tables that
connect **the** multiple index **keys** to the data **tables**. The data
table structure includes a column defined for storing tuple identifier
strings. These tuple identifiers can be used as pointers for chaining to
related data stored in other **data** tables. The database has relatively
small programmable memory. There is a common **structure** for user data
tables, index tables, and system data tables. The database includes a
minimum...

16/3,K/8 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01008689 **Image available**

METHODS AND SYSTEMS FOR PROVIDING ACCESS TO INFORMATION VIA QUERY
APPLICATION AND OUTPUT INTERFACE APPLICATION
PROCEDES ET SYSTEMES PERMETTANT D'ACCEDER A DES INFORMATIONS PAR
L'INTERMEDIAIRE D'UNE APPLICATION DE DEMANDE ET D'UNE APPLICATION
D'INTERFACE DE SORTIE

Patent Applicant/Assignee:

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(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

APPLEWHITE Jarratt, 300 E. Berger, Santa Fe, NM 87505, US, US (Residence)
, US (Nationality), (Designated only for: US)

MILLER Gregory D, 6421 Louise Pl. N.E., Albuquerque, NM 87019, US, US
(Residence), US (Nationality), (Designated only for: US)

MCKAY Christopher, 5407 Mt. Bonnel Road, Austin, TX 78731, US, US
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

BAHLER David D (agent), Fulbright & Jaworski L.L.P., Suite 2400, 600
Congress Avenue, Austin, TX 78701, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200338681 A1 20030508 (WO 0338681)

Application: WO 2002US34857 20021031 (PCT/WO US0234857)

Priority Application: US 20011911 20011031

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 9754

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... Data A) 375A, a second data fon-nat (Data B) 375B. and a third data
format (Data Q 375C. First, second, and third data formats 375A
through 375C may be converted deplo ing the replication process to a
first data table (Table A) 380A, a second data
Yi

table (Table B) 380B, and a third data table (Table Q 380C within
target database 330. Source database 280 may be replicated to reduce
contention or access to source database 280 to provide a stand-alone
data access system including secondary databases 365A through 365C...

16/3,K/13 (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00867291 **Image available**

DATABASE SYSTEM, PARTICULARLY FOR MULTIMEDIA OBJECTS
ENSEMBLE BASE DE DONNEES, UTILISEE, NOTAMMENT, POUR DES OBJETS MULTIMEDIAS

Patent Applicant/Assignee:

TWI INTERACTIVE INC, 1320 Centre Street, Newton Center, MA 02459, US, US
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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WILLIS Gregory Kenneth, 18c Fairholme Road, West Kensington, London W14
9JX, GB, GB (Residence), GB (Nationality), (Designated only for: US)

Legal Representative:

BUTLER Michael John (et al) (agent), Frank B. Dehn & Co., 179 Queen
Victoria Street, London EC4V 4EL, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200201384 A2-A3 20020103 (WO 0201384)

Application: WO 2001GB2857 20010627 (PCT/WO GB0102857)

Priority Application: GB 200015896 20000628

Designated States: AE AG AL AM AT (utility model) AT AU AZ BA BB BG BR BY
BZ CA CH CN CO CR CU CZ (utility model) CZ DE (utility model) DE DK
(utility model) DK DM DZ EC EE (utility model) EE ES FI (utility model)
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK (utility
model) SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8563

Main International Patent Class: G06F-017/30

Fulltext Availability:

Claims

Claim

... table has a field for identifying a parent record of an instance
record.

16 A **database** system as claimed in claim 14, in combination with an
information retrieval system running on...

...claim 14, which is arranged to analyse the first metadata table, the
first content data **table**, the **second** metadata **table**, the **second**
data table, the object type link table and the content data link table
and provides, for a...

...in claim 14, which is arranged to analyse the first metadata table, the
first content **data table**, the **second** metadata **table**, the **second**
data table, the object type **link table** and the content data **link**
table and provides, for a selected instance of an object, information
about that object's...

16/3,K/19 (Item 19 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00466813 **Image available**

DATABASE QUERY SYSTEM AND METHOD

SYSTEME ET PROCEDE D'INTERROGATION D'UNE BASE DE DONNEES

Patent Applicant/Assignee:

MICROSOFT CORPORATION,

BLINN Arnold N,

LORTON Michael S,

Inventor(s):

BLINN Arnold N,

LORTON Michael S,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9857278 A1 19981217

Application: WO 98US11199 19980601 (PCT/WO US9811199)

Priority Application: US 97871079 19970609

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE

CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN

ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 7652

Main International Patent Class: **G06F-017/30**

Fulltext Availability:

Detailed Description

Detailed Description

... for regeneration. More importantly, a page data table is not required.

Rather, reference to the **database** itself is made using this technique after lower and upper bounds have been identified from the page definition table. Note that searches can be based on different **database** fields by maintaining **multiple** page definition **tables**. This would have required **multiple** page **data** **tables** in the prior art.

Searches using this scheme are quick and efficient, requiring only a...

...lookup in the page definition table and a subsequent indexed query in the 1 5 **database**. Example queries using "fle" as a search value would appear as follows in SQL **format**.

```
select LOWER, UPPER from page definition table
where LOWER <= 'FLE' and UPPER > IFLE'
select name...
```

16/3,K/22 (Item 22 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00293338 **Image available**

DATABASE USING TABLE ROTATION AND BIMAPPED QUERIES

BASE DE DONNEES A ROTATION DE TABLES ET A INTERROGATIONS EN MODE POINT

Patent Applicant/Assignee:

FDC INC,

Inventor(s):

EMERSON Michael Gene,

WESTMAN Kelly Reed,

PILLAI Sushil,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9511487 A1 19950427

Application: WO 94US12074 19941024 (PCT/WO US9412074)

Priority Application: US 93141285 19931022

Designated States: CA GB

Publication Language: English

Fulltext Word Count: 85937

Main International Patent Class: G06F-017/00

International Patent Class: G06F-17:30 ...

... G06F-19:00

Fulltext Availability:

Detailed Description

Detailed Description

... rectangular file, not several files

joined together in a more real world representation of
data. Database Link' actually stores inverted indices
to gain access across multiple data tables .

Complex Bitmar) Processin

Customer Level

As shown in FIGURE 4 Database Link" involves a
number of different file structure types. In the
embodiment illustrated in FIGURE 4 there are a number of
different file...ilinclude 419>

#includos 4cmath:,,

suBnTUTE SHEET (RULE 26)

rililinclude 'Yd%.parser@/

*Wwjucje 8ld%-prototype"

#InClUde ' IdC .Macro-ciefn"

16/3,K/23 (Item 23 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00287480

METHOD AND APPARATUS FOR ALTERING INFORMATION IN A DATABASE
PROCEDE ET APPAREIL DE MODIFICATION DES INFORMATIONS D'UNE BASE DE DONNEES
Patent Applicant/Assignee:

PEOPLESOFT INC,

Inventor(s):

MALATESTA John A,
BERGQUIST Richard A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9505629 A2 19950223

Application: WO 94US9070 19940811 (PCT/WO US9409070)

Priority Application: US 93765 19930813

Designated States: AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP

KE KG KP KR KZ LK LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK

TJ TT UA UZ VN KE MW SD AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Fulltext Word Count: 6906

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... example of these two types of data using relations such as are used in an **RDBMS** . The first type is the actual data for which the **DBMS** and application are **designed** to store and retrieve such as employee, finance, accounting, and manufacturing data. This data is stored in application **data tables** 110.

The **second** type of data is the control information. This data provides information about the **structure** of the application data. **DBMS** Control Tables and Application Control Tables 106 include catalogs (i.e., control tables) that identify...with a zero scale and no nulls.

20

The application control tables can supplement the **DBMS** Control **Tables** by providing **additional** information to support features provided by the application and not by the **DBMS** . For example, an application control table may contain a field that specifies the **format** of the contents of a **data table** field 25 can be entered in uppercase, lowercase, or mixed (i.e., both upper and...

Set	Items	Description
S1	165489	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK?) OR OODB? - OR DB? ? OR DBM? OR RDB?
S2	64639	DATA()TABLE? OR (SINGLE OR UNIQUE OR IDENTIFIED OR SPECIFI- ?) (N) (FIELD? OR VALUE? OR EXPRESSION?)
S3	2804689	SCHEMA OR DESIGN? OR PLAN OR FORMAT? OR LAYOUT? OR STRUCTU- RE? OR SCHEMAS OR PLANS OR MAPPING
S4	11909	(TWO OR SECOND OR ADDITIONAL OR MULTIPLE OR 2ND OR TWIN OR PAIR) (2N) (TABLE?)
S5	666969	LINK? OR POINTER? OR TAG? ? OR IDENTIFIER? OR ID? ?
S6	112569	DATAcube? OR (3D OR 3 OR THIRD OR THREE) () (DIMENSION? OR D)
S7	345	S1 AND S2 AND S3
S8	8	S7 AND S4
S9	194	S7 AND (TABLE? OR GRID?)
S10	39	S9 AND S5
S11	4	S9 AND S6
S12	116	S1 AND S2 (10N) S3
S13	0	S1 AND S4 AND S5 AND S6
S14	66	S12 AND IC=(G06F-017? OR G06F-007?)
S15	12	S14 AND (S4 OR S5 OR S6)
S16	21	S15 OR S11 OR S8
S17	32	S10 AND IC=(G06F-017? OR G06F-007?)
S18	43	S16 OR S17
S19	41	S18 AND IC=G06F?
S20	41	IDPAT (sorted in duplicate/non-duplicate order)
S21	38	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)
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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200444
(c) 2004 Thomson Derwent

21/5/4 (Item 4 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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015845636 **Image available**
WPI Acc No: 2004-003463/200401
XRPX Acc No: N04-003033

Data collection/storage system for relational database management system used in supervision and control system, has two data tables for storing collected data and content information of collected data, respectively

Patent Assignee: NEC CORP (NIDE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003316794	A	20031107	JP 2002123116	A	20020424	200401 B

Priority Applications (No Type Date): JP 2002123116 A 20020424

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003316794	A		11	G06F-017/30	

Abstract (Basic): JP 2003316794 A

NOVELTY - A data collection task (1) collects data from external measurement apparatus. Data storing/processing unit (2) stores data in specified **format** in data storage unit (3). The data storage unit has **data table** (31) for storing data obtained from data storing/processing unit, and **data table** (32) for storing line **identifier** and flag indicating existence of data in the **data table** (31).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for data collection/storing procedure.

USE - For relational **database** management system (RDMS) used in supervision and control system, remote control/monitoring system, and telemetry apparatus.

ADVANTAGE - Since the storage of data is guaranteed, the system enables easy search and updating of data.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the data collection/storage system. (Drawing includes non- English language text).

data collection **table** (1)
data storing/processing unit (2)
data storage unit (3)
data table (31,32)
pp; 11 DwgNo 1/12

Title Terms: DATA; COLLECT; STORAGE; SYSTEM; RELATED; **DATABASE** ;
MANAGEMENT; SYSTEM; SUPERVISION; CONTROL; SYSTEM; TWO; DATA; **TABLE** ;
STORAGE; COLLECT; DATA; CONTENT; INFORMATION; COLLECT; DATA; RESPECTIVE

Derwent Class: T01; T06; W05

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-012/00 ; G06F-017/40

File Segment: EPI

21/5/5 (Item 5 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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015692555 **Image available**
WPI Acc No: 2003-754744/200371
Related WPI Acc No: 2002-081656; 2003-896322
XRPX Acc No: N03-604704

Hybrid database system for multimedia data, has table for storing extensions for object, having object identifications and attributes associated with respective object

Patent Assignee: SILICON GRAPHICS INC (SILI-N)

Inventor: MENON S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6615204	B1	20030902	US 96644686	A	19960531	200371 B
			US 2000541531	A	20000403	

Priority Applications (No Type Date): US 2000541531 A 20000403; US 96644686 A 19960531

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6615204	B1	32	G06F-017/30	CIP of application	US 96644686

Abstract (Basic): US 6615204 B1

NOVELTY - A fixed mapped **table** has used **tables** comprising identification (**ID**) of objects with respective asset type. A **table** (102) for storing extension for the objects, has **tables** for each asset type comprising associated object **IDs** and attributes. The attribute specific metadata **tables** (1106a-n) stores object **IDs** with respective attributes. A program interface automatically relates the objects in the fixed mapped **table** to the respective extensions through stored object **IDs** .

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for method for **mapping** objects into a **database** storage.

USE - For **mapping** data objects e.g. multimedia data comprising voice and video e.g. animation film, computer animation film, video game, interactive movies, news clips, educational multimedia products, corporate multimedia productions, multimedia sales catalogs, still video image analog and/or off line recordings, paper drawings, video clip, scanned incline drawings, inked and printed drawings back ground, color model, inspirational artwork, **three - dimensional** model, X sheets and production spreadsheet created during process of multimedia productions within **database** storage in shared multimedia environment such as asset management system.

ADVANTAGE - **Mapping** is efficient. Since the extensions capture the changes and updates to objects over their life times. Hence, **schema** evolution problems and costs associated with the extending objects are avoided. Fixed **mapping** minimizes processing overhead for accessing the objects that do not change over their life times. This provides high speed **database** performance and high flexibility during storage, retrieval and query operations and minimizes processing penalty paid for accessing extensions. Storage space is utilized efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the hybrid **database** system.

asset **table** (1102)
entries (1104a-n,1108a-n)
meta **data tables** (1106a-n)
pp; 32 DwgNo 11/14

Title Terms: HYBRID; **DATABASE** ; SYSTEM; DATA; **TABLE** ; STORAGE; EXTEND; OBJECT; OBJECT; IDENTIFY; ATTRIBUTE; ASSOCIATE; RESPECTIVE; OBJECT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/9 (Item 9 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014916884 **Image available**
WPI Acc No: 2002-737591/200280
XRPX Acc No: N02-581853

Database management system has attribute operator to refer, add or
update attribute with respect to attribute table , and data operator to
refer, add or update data with respect to data table

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002312382	A	20021025	JP 2001118985	A	20010418	200280 B

Priority Applications (No Type Date): JP 2001118985 A 20010418

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002312382	A	8	G06F-017/30	

Abstract (Basic): JP 2002312382 A

NOVELTY - An attribute operator (105) refers, adds or updates an attribute with respect to the attribute **table** (103) of a **database** (102). A data operator (106) refers, adds or updates the data with respect to the **data table** (104) of a **database** (102). A **database** manager (107) regulates the data and attribute operators and the **database** .

DETAILED DESCRIPTION - The **database** manager also associates the attribute name in the attribute **table** and the attribute value in the **data table** by identification **ID** . An input output I/O device (108) is **linked** to the **database** manager. The I/O device inputs an operation requisition with respect to the data and attribute **tables** to the manager, and outputs an operation result from the manager.

USE - **Database** management system.

ADVANTAGE - Data **structure** can be easily changed, since data and/or attribute can be easily added, deleted or updated when necessary. Minimizes need for data distinction process.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a **database** management system. (Drawing includes non-English language text).

Database (102)
Attribute **table** (103)
Data table (104)
Attribute operator (105)
Data operator (106)
Database manager (107)
I/O device (108)
pp; 8 DwgNo 1/8

Title Terms: **DATABASE** ; MANAGEMENT; SYSTEM; ATTRIBUTE; OPERATE; REFER; ADD
; UPDATE; ATTRIBUTE; RESPECT; ATTRIBUTE; **TABLE** ; DATA; OPERATE; REFER;
ADD; UPDATE; DATA; RESPECT; DATA; **TABLE**

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-012/00

File Segment: EPI

21/5/15 (Item 15 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014309950 **Image available**
WPI Acc No: 2002-130653/200217
XRPX Acc No: N02-098556

Object-relational mapping for tables without primary keys to maintain
information in relational databases using a cursor update operation to
maintain the information

Patent Assignee: SUN MICROSYSTEMS INC (SUNM)
Inventor: RUSSELL C L; VATKINA M V; WATZEK M E
Number of Countries: 024 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200195154	A2	20011213	WO 2001US17498	A	20010531	200217 B
US 6591275	B1	20030708	US 2000585602	A	20000602	200353

Priority Applications (No Type Date): US 2000585602 A 20000602

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200195154 A2 E 20 G06F-017/30

Designated States (National): CN JP KR SG

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE TR

US 6591275 B1 G06F-017/30

Abstract (Basic): WO 200195154 A2

NOVELTY - A networked computer (101) has object-relational mapping
tool (110), database data structure (112) and database (114).
The mapping tool can maintain information in the relational database
without primary keys, using an associated cursor update operation by
creating objects with a unique identifier populated by values from
columns in a table selected with values specified in a selected
instruction of a set of values.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for a data
processing system and for a computer readable medium with computer
instructions.

USE - Accessing data stored in relational database tables not
using primary keys.

DESCRIPTION OF DRAWING(S) - The drawing shows a data processing
system

Computer (101)

Mapping tool (110)

Data structure (112)

Database (114)

pp; 20 DwgNo 1/6

Title Terms: OBJECT; RELATED; MAP; TABLE ; PRIMARY; KEY; MAINTAIN;
INFORMATION; RELATED; CURSOR; UPDATE; OPERATE; MAINTAIN; INFORMATION
Derwent Class: T01
International Patent Class (Main): G06F-017/30
File Segment: EPI

21/5/20 (Item 20 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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013415633 **Image available**
WPI Acc No: 2000-587571/200055
XRPX Acc No: N00-434762

Extracting information from database by evaluation of mathematical function, which operates on one or more selected variables

Patent Assignee: QLIKTECH INT AB (QLIK-N)
Inventor: WOLG H K; WOLGE H
Number of Countries: 092 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200055766	A1	20000921	WO 2000SE482	A	20000310	200055 B
SE 9900894	A	20000913	SE 99894	A	19990312	200060
AU 200038518	A	20001004	AU 200038518	A	20000310	200101
SE 516562	C2	20020129	SE 99894	A	19990312	200216
EP 1177512	A1	20020206	EP 2000917562	A	20000310	200218
			WO 2000SE482	A	20000310	
JP 2002539563	W	20021119	JP 2000605924	A	20000310	200281
			WO 2000SE482	A	20000310	

Priority Applications (No Type Date): SE 99894 A 19990312

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200055766	A1	E	29	G06F-017/30	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

SE 9900894	A	G06F-017/30	
AU 200038518	A	G06F-017/30	Based on patent WO 200055766
SE 516562	C2	G06F-017/30	
EP 1177512	A1 E	G06F-017/30	Based on patent WO 200055766
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE LI LT LV MK RO SI			
JP 2002539563	W	34 G06F-017/30	Based on patent WO 200055766

Abstract (Basic): WO 200055766 A1

NOVELTY - The method is implemented using a computer program. It reads all the records (101) in the **database** and identifies all **data tables** (104) that contain at least one value of the selected variables and that directly or indirectly have variables in common with connecting tables, selecting a starting table (105) and building a conversion **structure** (106). Then evaluating a mathematical function for each data record.

DETAILED DESCRIPTION - An INDEPENDENT is also included for An article of manufacture comprising a readable medium having a computer program stored on it.

USE - For extracting information from a **database**.

ADVANTAGE - Allows user to freely select mathematical functions, incorporate calculations variables and classification variables for presentation of results. The final data **structure** is generated in an efficient way with respect to both time and memory requirement.

DESCRIPTION OF DRAWING(S) - The figure shows a flow diagram of how the process works.

Reads data records (101)

Identify all connections between **two data tables** (102)

defining mathematical function (103)

Reading data (107)

pp; 29 DwgNo 2/2

Title Terms: EXTRACT; INFORMATION; **DATABASE**; EVALUATE; MATHEMATICAL;
FUNCTION; OPERATE; ONE; MORE; SELECT; VARIABLE

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

International Patent Class (Additional): G06F-012/00
File Segment: EPI

21/5/22 (Item 22 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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012692836 **Image available**
WPI Acc No: 1999-498945/199942
XRPX Acc No: N99-372112

Electronically processed publication data registration procedure for
internet, electronic mail - involves registering defined structure
information of publication data as standard description language to
database

Patent Assignee: NTT COMMUNICATION WEAR KK (NITE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11212997	A	19990806	JP 9816175	A	19980128	199942 B

Priority Applications (No Type Date): JP 9816175 A 19980128

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11212997	A	15	G06F-017/30	

Abstract (Basic): JP 11212997 A

NOVELTY - The component structure of many varieties of publication
is analyzed and is collected as a similar item for determination of
general purpose structure of a publication using **tag** . The structure
information of publication data is defined and is registered to
database (1) as standard description language based on output of
general purpose structure. DETAILED DESCRIPTION - An INDEPENDENT CLAIM
is also included for publication data registration system.

USE - For registering electronically processed publication data to
electron publication **database** to enable search for use during
internet, electronic mail.

ADVANTAGE - The publication data is registered to a **database**
using the publication **structure** definition, and the **data base**
management for every **specific field** is not needed, hence search
efficiency of registered publication data is increased. DESCRIPTION OF
DRAWING(S) - The figure explains the registration and search in
electronic publication **database** . (1) **Database** .

Dwg.1/16

Title Terms: ELECTRONIC; PROCESS; PUBLICATION; DATA; REGISTER; PROCEDURE;
ELECTRONIC; MAIL; REGISTER; DEFINE; STRUCTURE; INFORMATION; PUBLICATION;
DATA; STANDARD; DESCRIBE; LANGUAGE; **DATABASE**

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

International Patent Class (Additional): **G06F-017/27**

File Segment: EPI

21/5/24 (Item 24 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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012409078 **Image available**
WPI Acc No: 1999-215186/199918
XRPX Acc No: N99-158351

Data management method for networked information

Patent Assignee: MATRIXONE INC (MATR-N)

Inventor: TEWKSBARY D E

Number of Countries: 081 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9913419	A1	19990318	WO 98US18767	A	19980909	199918 B
AU 9893812	A	19990329	AU 9893812	A	19980909	199932

Priority Applications (No Type Date): US 97926149 A 19970909

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9913419	A1	E	26	G06F-017/30	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT UA UG UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9893812	A			G06F-017/30	Based on patent WO 9913419
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Abstract (Basic): WO 9913419 A1

NOVELTY - Object data is stored in a relational **database** , such that a separate **data table** is stored in the **database** for each of a number of data types. A unique object **identifier** (OID) is associated to an object, and the object defined using a number of data items. Each of the data items is one of the data types. After the object has been assigned an OID, the OID is associated with each of the data items defining the object. Each of the data items and the associated OID are stored in respective ones of the **data tables** according to the data type.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for building a hierarchy of objects in a relational **database** , and an apparatus for managing information.

USE - Information and document management in homogeneous and/or heterogeneous environment of workstations and file servers connected by a network.

ADVANTAGE - Allows construction and exploration of **database** via graphical 'browser' screen displays that present **database** objects and relationships in variety of **formats** .

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic diagram of a computer network system used to practice the invention.

Workstations (12,14)

File servers (16,18)

Network (20)

Users (22,24)

pp; 26 DwgNo 1/6

Title Terms: DATA; MANAGEMENT; METHOD; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/26 (Item 26 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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012254467 **Image available**
WPI Acc No: 1999-060574/199905
XRPX Acc No: N99-044962

Data processing system allowing easier modification and development. -
using autonomous meta-dictionary, analytical means of memorising
interrelated columns and restructuring module to present information.

Patent Assignee: MARTIN G (MART-I)
Inventor: MARTIN G
Number of Countries: 023 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9857272	A1	19981217	WO 98FR1015	A	19980520	199905 B
FR 2764719	A1	19981218	FR 977305	A	19970612	199906
EP 988607	A1	20000329	EP 98928350	A	19980520	200020
			WO 98FR1015	A	19980520	
US 6553383	B1	20030422	WO 98FR1015	A	19980520	200330
			US 99445751	A	19991210	

Priority Applications (No Type Date): FR 977305 A 19970612

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9857272	A1	F 93	G06F-017/30	
Designated States (National): CA JP KR US				
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE				
EP 988607	A1	F	G06F-017/30	Based on patent WO 9857272
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE				
US 6553383	B1		G06F-017/30	Based on patent WO 9857272

Abstract (Basic): WO 9857272 A

The system comprises a computer having a processor (410), a memory (440) typically hard disk and an operating system (450). A **database** management system (470) enable a user to use data (475) which is decomposable into lines and columns. The invention enables developments to start from a monutable **structure** and uses a meta-dictionary (510) which memorises the **structures** of the **data tables** and the **links** between them. A means of analysis (520,530,550) is able to memorise temporarily groups of columns which are mutually **linked** and a restructuring module (580,590) cooperates with the meta-dictionary and the analytical means to present to the user a view of the **data base** taking into account groups of **linked** columns.

ADVANTAGE - A user may modify the **structure** of the **database** according to new developing needs without expert knowledge of specialist languages. The time required for analysis, development and later modification is reduced and the system is applicable to all current relational **databases**.

Dwg.3/20

Title Terms: DATA; PROCESS; SYSTEM; ALLOW; EASY; MODIFIED; DEVELOP;
AUTONOMOUS; META; DICTIONARY; ANALYSE; MEMORY; INTERRELATED; COLUMN;
RESTRUCTURING; MODULE; PRESENT; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/27 (Item 27 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012103796 **Image available**
WPI Acc No: 1998-520708/199844
XRPX Acc No: N98-406720

Virtual table accessing method for RDBMS - involves receiving value corresponding to current activity information from user process and determining its location in virtual table based on value corresponding to activity information

Patent Assignee: ORACLE CORP (ORAC-N)

Inventor: LOAIZA J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5809495	A	19980915	US 96658059	A	19960604	199844 B

Priority Applications (No Type Date): US 96658059 A 19960604

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5809495	A		13	G06F-017/30	

Abstract (Basic): US 5809495 A

The method involves monitoring current activity in DBMS and storing information indicating current activity in RDBMS, in a virtual table. A value corresponding to current activity information is received from a user process specifying value in database query language statement.

The location of activity information in virtual table is determined based on specified value. The detected location is mapped to an address in a memory. The information is read beginning from the set address. Then, information is output to user process, in response to data query language statement.

USE - For data structures in memory, printer arrays, doubly linked list.

ADVANTAGE - Enables to directly access information in virtual time. Uses virtual table that maintain current sessions, specific session, SQL statement, statistics for session, locks and open cursors.

Dwg.4/7

Title Terms: VIRTUAL; TABLE; ACCESS; METHOD; RECEIVE; VALUE; CORRESPOND; CURRENT; ACTIVE; INFORMATION; USER; PROCESS; DETERMINE; LOCATE; VIRTUAL; TABLE; BASED; VALUE; CORRESPOND; ACTIVE; INFORMATION

Index Terms/Additional Words: RELATIONAL; DATABASE; MANAGEMENT; SYSTEM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/29 (Item 29 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011526182 **Image available**
WPI Acc No: 1997-502668/199746
XRPX Acc No: N97-419054

Computer implemented electronic catalogue database method - involves
storing linked tables in data structure including product domain
which is linked to product table which is in turn linked to
component table pricing table, and warranty table

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: MAXWELL J E; MCDOWELL D J; SCHAEFLE S W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5675784	A	19971007	US 95454708	A	19950531	199746 B

Priority Applications (No Type Date): US 95454708 A 19950531

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5675784	A		31	G06F-017/60	

Abstract (Basic): US 5675784 A

The method for a computer implemented electronic catalog database involves classifying data in a three tiered hierarchical data structure consisting of domains, classes and subclasses. Component groups are defined for the subclasses and a component order within which each subclass in a series of tables is defined. Attributes are linked with components, the attributes including specification values and units of measure associated with them. The components are linked to products using junction tables.

The linked tables are stored in a data structure including a product domain which is linked to a product table which is in turn linked to a component table, a pricing table and a warranty table. A user selects a domain, a class and a subclass to input and to search data in the linked tables. The database manager allows a user to search for products, and choose from lists of common components. The component table is also linked to a component specification table and to a component group specification type usage table.

USE/ADVANTAGE - Allows users to search for specific products based on component criteria. Allows for unlimited number and type of components to be associated with products.

Dwg.13/14d

Title Terms: COMPUTER; IMPLEMENT; ELECTRONIC; CATALOGUE; DATABASE; METHOD
; STORAGE; LINK; TABLE; DATA; STRUCTURE; PRODUCT; DOMAIN; LINK;
PRODUCT; TABLE; TURN; LINK; COMPONENT; TABLE; PRICE; TABLE;
WARRANTY; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-017/30

File Segment: EPI

21/5/30 (Item 30 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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010663063 **Image available**
WPI Acc No: 1996-160017/199616
Related WPI Acc No: 1998-271611
XRPX Acc No: N96-134118

Maintaining referential integrity among data tables stored in personal computer relational database management system - designating master and detail tables respectively having fields serving as primary and foreign keys, and linking detail table with primary key of master table using information in foreign key regardless of set sites where table re-sides

Patent Assignee: BORLAND INT INC (BORL-N)
Inventor: VIJAYKUMAR N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5499359	A	19960312	US 94183619	A	19940118	199616 B

Priority Applications (No Type Date): US 94183619 A 19940118

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5499359	A	37	G06F-017/30	

Abstract (Basic): US 5499359 A

The method involves receiving from a user a request specifying a desired referential integrity link between two data tables. The request designates a master table having a field whose values are to serve as a reference. The field serves as a primary key for the master table. The request also designates a detail table having a field whose values are required to match reference values in the master table. The field of the detail table serve as a foreign key linking the detail table to the primary key of the master table. The detail table is associated with a foreign key descriptor. The foreign key descriptor stores information specifying which index of the detail table supports the foreign key, which table is the master table for the referential integrity link, and which fields of the detail table contribute to the foreign key.

The foreign key descriptor is stored together with the detail table so that a transfer of the detail table to a remote location includes transfer of the foreign key descriptor. The master table is associated with an embedded key descriptor. The embedded key descriptor stores information specifying which fields of the master table contribute to the primary key and further specifying the detail table for the referential integrity link. The embedded key descriptor is stored together with the master table so that a transfer of the master table to a remote location includes transfer of the embedded key descriptor. A detail table descriptor is stored with the embedded key descriptor. The detail table descriptor stores information specifying the detail table, which index supports the foreign key, and which one field of the detail table contributes to the foreign key.

ADVANTAGE - Maintains data integrity between data tables which may be freely moved to various remote workstations, which do not have ready access to centrally-maintained data dictionary. Permits end-users to easily define referential integrity links between data tables. Allows easy, efficient storage and retrieval. Allows user to customise how his or her data is presented.

Dwg.7b/7

Title Terms: MAINTAIN; INTEGRITY; DATA; TABLE; STORAGE; PERSON; COMPUTER; RELATED; DATABASE; MANAGEMENT; SYSTEM; DESIGNATED; MASTER; DETAIL; TABLE; RESPECTIVE; FIELD; SERVE; PRIMARY; FOREIGN; KEY; LINK; DETAIL; TABLE; PRIMARY; KEY; MASTER; TABLE; INFORMATION; FOREIGN; KEY; SET; SITE; TABLE; SIDE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/32 (Item 32 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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008122950 **Image available**
WPI Acc No: 1990-009951/199002
XRPX Acc No: N90-007625

Real-time database for computer integrated mfg. system - stores,
searches, and retrieves tuples in data tables, and stores and
retrieves informatted data in input areas

Patent Assignee: HEWLETT-PACKARD CO (HEWP)
Inventor: FATEHI F; GIVENS C; HONG L T; LIU C; WRIGHT M J; LUI C; LUI C C
Number of Countries: 005 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 350208	A	19900110	EP 89306620	A	19890629	199002 B
US 4961139	A	19901002	US 88213578	A	19880630	199042
CA 1319756	C	19930629	CA 604425	A	19890629	199332
EP 350208	B1	19970108	EP 89306620	A	19890629	199707
DE 68927621	E	19970220	DE 627621	A	19890629	199713
			EP 89306620	A	19890629	

Priority Applications (No Type Date): US 88213578 A 19880630

Cited Patents: 4.Jnl.Ref; A3...9148; No-SR.Pub

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 350208	A	E 16		
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EP 350208	B1	E 20	G06F-017/30	
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Designated States (Regional): DE FR GB

DE 68927621	E	G06F-017/30	Based on patent EP 350208
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CA 1319756	C	G06F-015/40	
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Abstract (Basic): EP 350208 A

A real-time database comprises data storage routines, data retrieval routines, data updating routines, and an index hashing mechanism, for storing, searching and retrieving tuples in data tables, and for storing and retrieving unformatted data in input areas. The data retrieval routines include a routine to directly access to data using tuple identifiers, and a routine to directly access unformatted data from input areas. The data retrieval routines for accessing tuples in data tables include an option to read-through-lock to access tuples in locked data tables.

The data updating routines include an option to omit index updating when updating data and an option to update data in a locked data table. The data storage routines and the data retrieval routines are independent and use has index tables to relate an index key to an entry in the data table, so that multiple indexes can be defined for a data table. The data table structure includes a column defined for storing tuple identifier strings.

ADVANTAGE - Provides high speed data access required for on-line applications.

1/5

Title Terms: REAL; TIME; DATABASE; COMPUTER; INTEGRATE; MANUFACTURE;
SYSTEM; STORAGE; SEARCH; RETRIEVAL; DATA; TABLE; STORAGE; RETRIEVAL;
DATA; INPUT; AREA

Derwent Class: T01

International Patent Class (Main): G06F-015/40; G06F-017/30

International Patent Class (Additional): G06F-012/00

File Segment: EPI

Set	Items	Description
S1	2609975	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK?) OR OODB? - OR DB? ? OR DBM? OR RDB?
S2	66642	DATA()TABLE? OR (SINGLE OR UNIQUE OR IDENTIFIED OR SPECIFI- ?) (N) (FIELD? OR VALUE? OR EXPRESSION?)
S3	19068462	SCHEMA OR DESIGN? OR PLAN OR FORMAT? OR LAYOUT? OR STRUCTU- RE? OR SCHEMAS OR PLANS OR MAPPING
S4	84494	(TWO OR SECOND OR ADDITIONAL OR MULTIPLE OR 2ND OR TWIN OR PAIR) (2N) (TABLE?)
S5	4209173	LINK? OR POINTER? OR TAG? ? OR IDENTIFIER? OR ID? ?
S6	360617	DATA()CUBE? OR DATACUBE? OR (3D OR 3 OR THIRD OR THREE) () (- DIMENSION? OR D)
S7	32316	S1(3N) (MODIF? OR CHANGE? OR CHANGING OR ALTER OR REVIS? OR EDIT OR EDITING)
S8	74244	CATEGORY?()TABLE? OR (DATA OR INFORMATION) () (ID OR IDENTIFI- ER? OR IDS OR TYPE?) OR METADATA? OR META()DATA?
S9	106	S1(S)S2(S)S8
S10	58	S9(S)S3
S11	0	S9(S)S4(S)S6
S12	0	S9(S)S6(S)S7
S13	1	S10(S) (S6 OR S7)
S14	39	RD S10 (unique items)
S15	34	S14 NOT PY>2001
S16	32	S15 NOT PD>20010314
File 275:	Gale Group Computer DB(TM)	1983-2004/Jul 12 (c) 2004 The Gale Group
File 47:	Gale Group Magazine DB(TM)	1959-2004/Jul 14 (c) 2004 The Gale group
File 75:	TGG Management Contents(R)	86-2004/Jul W1 (c) 2004 The Gale Group
File 636:	Gale Group Newsletter DB(TM)	1987-2004/Jul 09 (c) 2004 The Gale Group
File 16:	Gale Group PROMT(R)	1990-2004/Jul 09 (c) 2004 The Gale Group
File 624:	McGraw-Hill Publications	1985-2004/Jun 24 (c) 2004 McGraw-Hill Co. Inc
File 484:	Periodical Abs Plustext	1986-2004/Jun W3 (c) 2004 ProQuest
File 813:	PR Newswire	1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc
File 141:	Readers Guide	1983-2004/Jun (c) 2004 The HW Wilson Co
File 370:	Science	1996-1999/Jul W3 (c) 1999 AAAS
File 553:	Wilson Bus. Abs. FullText	1982-2004/Jun (c) 2004 The HW Wilson Co
File 621:	Gale Group New Prod. Annou. (R)	1985-2004/Jul 08 (c) 2004 The Gale Group
File 674:	Computer News Fulltext	1989-2004/Jun W4 (c) 2004 IDG Communications
File 88:	Gale Group Business A.R.T.S.	1976-2004/Jul 13 (c) 2004 The Gale Group
File 160:	Gale Group PROMT(R)	1972-1989 (c) 1999 The Gale Group
File 635:	Business Dateline(R)	1985-2004/Jul 13 (c) 2004 ProQuest Info&Learning
File 15:	ABI/Inform(R)	1971-2004/Jun 27 (c) 2004 ProQuest Info&Learning
File 9:	Business & Industry(R)	Jul/1994-2004/Jul 13 (c) 2004 The Gale Group
File 13:	BAMP	2004/Jun W4 (c) 2004 The Gale Group
File 810:	Business Wire	1986-1999/Feb 28 (c) 1999 Business Wire
File 647:	CMP Computer Fulltext	1988-2004/Jul W1 (c) 2004 CMP Media, LLC
File 148:	Gale Group Trade & Industry DB	1976-2004/Jul 09 (c) 2004 The Gale Group

16/3,K/1 (Item 1 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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02216876 SUPPLIER NUMBER: 21115768 (USE FORMAT 7 OR 9 FOR FULL TEXT)
KISMETA VALIDATOR 1.1. (Kismet Analytic's database code review tool)
(Software Review) (Evaluation)
Carnell, Michael
DBMS, v11, n10, p27(1)
Sept, 1998
DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1544 LINE COUNT: 00122

... work.

In short, Validator contains a database of standards in the form of naming conventions, **data type** standards, and **field specifications**. It also accepts the input of the **layout** of a **database design**. Then it makes a comparison between the standards and the actual **design**. You can create various reports that show mismatches, warnings, and even recommendations for fixing the problems. Validator is unique in its niche. While code review tools exist for programmers and **design** tools exist for **database** administrators, I could find no other review tools for **databases**.

The version of Validator I used for this review was version 1. of the Enterprise...

16/3,K/8 (Item 8 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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01431663 SUPPLIER NUMBER: 10757335 (USE FORMAT 7 OR 9 FOR FULL TEXT)
SFQL: when structure counts. (Structured Full-text Query Language) (includes
a related article on Standard General Markup Language, Document Type
Definitions, schemas, and Object Oriented Data Bases)

Dyson, Esther

RELease 1.0, v91, n4, p14(5)

April 30, 1991

ISSN: 1047-935X

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1710

LINE COUNT: 00130

TEXT:

...which allows for independent clients and servers, by allowing them to communicate formally about the **structure** as well as the content of the data. (Or they may share a common, standard data **schema** specified by an outside authority, such as a trade group or anyone who controls both...

...project; presumably, it would like its suppliers to provide documentation on CD-ROM in a **format** that could be read by front-ends from a variety of competing front-end system...

...Airlines and British Airways; and AIA members Aerospatiale, Boeing, Douglas and GE. SFQL stands for **Structured Full-text Query Language**, based on a subset of SQL (**Structured Query Language**). It leaves out relational **database** functions such as dynamic updates, joins, transaction management, dynamic view definitions and subqueries which don't (for now) seem relevant or cost-effective with text **databases** . The premise - and power - of SFQL is that the text being searched does have some **structure** , including such things as a title, an author, an abstract, headings and subheadings (which can...

...is unknown - and keeps changing). Moreover, SFQL can build (project, in relational terms) new text **structures** : You may want different subsets depending on whether your plane has two galleys or extra...

...tables showing which items fall under which other items, so can you create a text **database** showing cross-references, components and so forth. Then you can use a superset of SFQL...

...newer version, SFQL2, now in final revision, can handle the more subtle (and appropriate to **structured** documents) notions of hierarchies and components and subcomponents - although the **schema** is still maintained as tables, not as a logical hierarchy. That is, a paragraph is also part of a chapter; any text can contain a variety of separately **specified fields** such as part names or diagrams, cross-references can be maintained, and a listing of...in general since it sells a naked engine - is more of a religion. The company **plans** to support SFQL in a forthcoming release of its software: The two implementation teams, working...

...ran under Dos/Windows). They both still worked. The ATA Spec 100 standard includes a **schema** for aircraft documentation implemented in SFQL, but SFQL can actually be used more broadly. Just as an SQL **database** has a catalogue (which is a **metadatabase** about the **database** it manages), so does SFQL use a **metadatabase** , or **schema** , about the texts it manages. This **schema** can be part of a standard - as in AIA/ATA - or it can be built...

...for any SFQL front-end to communicate intelligently with that SFQL back-end and its **schema** . Having a standard **schema** gives you the ability to create more tailored front-ends that make access easy for...

...that SFQL ultimately can address a large range of information models and domains. This text **metadatabase** is close to, or is a possible kind of, Document Type Definition, or DTD. DTDS...

16/3,K/9 (Item 9 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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01390307 SUPPLIER NUMBER: 10567627 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Development tool proves a Vax exclusive. (Software Review) (Gembase)
(evaluation)
Leach, Julian
DEC User, p37(2)
Dec, 1990
DOCUMENT TYPE: evaluation ISSN: 0263-6530 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1917 LINE COUNT: 00149

... examined at run time, data-program independence is ensured.

It is possible to compile the **meta data** for a **database** to bypass the reading of the **meta data tables** at system startup. This is intended for a production environment only, as the compiled version will not reflect changes to the **meta data**. This does not pose a serious problem, because Gembase carries out version checking at system startup. If the compiled version has become obsolete, Gembase uses the source **meta data** and informs the user that re-compilation is necessary. Compiled **meta data** is split into **structured** and textual files, so that a multi-lingual application is easily implemented. Unfortunately, this cannot

...

Set	Items	Description
S1	8870	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK?) OR OODB? - OR DB? ? OR DBM? OR RDB?
S2	62	DATA()TABLE? OR (SINGLE OR UNIQUE OR IDENTIFIED OR SPECIFI- ?) (N) (FIELD? OR VALUE? OR EXPRESSION?)
S3	21431	SCHEMA OR DESIGN? OR PLAN OR FORMAT? OR LAYOUT? OR STRUCTU- RE? OR SCHEMAS OR PLANS OR MAPPING
S4	46	(TWO OR SECOND OR ADDITIONAL OR MULTIPLE OR 2ND OR TWIN OR PAIR) (2N) (TABLE?)
S5	8371	LINK? OR POINTER? OR TAG? ? OR IDENTIFIER? OR ID? ?
S6	210	DATA()CUBE? OR DATACUBE? OR (3D OR 3 OR THIRD OR THREE) () (- DIMENSION? OR D)
S7	153	S1(3N) (MODIF? OR CHANGE? OR CHANGING OR ALTER OR REVIS? OR EDIT OR EDITING)
S8	865	CATEGORY? ()TABLE? OR (DATA OR INFORMATION) () (ID OR IDENTIFI- ER? OR IDS OR TYPE?) OR METADATA? OR META()DATA?
S9	1	S1 AND S2 AND S8
S10	1	S9 AND (S3 OR S4 OR S6)
S11	0	S9 AND S5
S12	0	S1 AND S2 AND S3 AND S4
S13	1	S10 OR S11 OR S12
S14	327	S1 AND S8
S15	14	S1 AND S2
S16	201	(S14 OR S15) AND S3
S17	2	S16 AND S7
S18	1	S16 AND S4
S19	3	S13 OR S17
S20	0	S19 NOT PY>2001

File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Jun
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